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SEQUENCE LISTING

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Major Sleister, Heidi

<120> Compositions and Methods for Altering Amino Acid Content of Proteins

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<140> 08/988,015

<141> 1997-12-10

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Leu Tyr Asp Glu Trp Val Asn Lys Gly Asp Ala Pro Ala Leu Pro Glu 100 105 110

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Phe Leu Ser Gly Arg Tyr Leu Asp Lys Met Ala Val Thr Glu Ala Asn

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Leu Lys Lys Ala Gly Phe His Thr Trp Glu Gln Leu Ile Leu Lys Asp 145 150 155 160

Pro His Leu Ile Thr Pro Asn Ala Leu Ser Tyr Lys Ser Ala Met Arg 165 170 175

Glu Asn Leu Leu Arg Gln Gly Tyr Arg Ile Val Gly Ile Ile Gly Asp 180 185 190

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Val Asn Gln Gln Ala Tyr Phe Tyr Ala Arg Asp Leu Glu Val His Pro 50 55 60

Lys Asp Thr Phe Val Phe Ser Ile Asp Asn Thr Val Leu Ser Asn Ile 65 70 75 80

Pro Tyr Tyr Lys Lys His Gly Tyr Gly Val Glu Lys Phe Asn Ser Thr 85 90 95

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Ala Lys Leu Val Gln Glu Gly Tyr Arg Ile Val Gly Asn Ile Gly Asp 180 185 190

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Glu Ala Tyr Phe Tyr Ala Lys Gly Leu Ala Leu Lys Asn Asp Thr Ile
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35 40 45

Thr Val Asn Lys Glu Ala Tyr Phe Tyr Ala Lys Gly Leu Ala Leu Lys 50 55 60

Asn Asp Thr Val Asn Val Trp Ile Phe Asp Leu Asp Asp Thr Leu Leu 65 70 75 80

Ser Ser Ile Pro Tyr Tyr Ala Lys Tyr Gly Tyr Gly Thr Glu Asn Thr 85 90 95

Ala Pro Gly Ala Tyr Trp Ser Trp Leu Glu Ser Gly Glu Ser Thr Pro 100 105 110

Gly Leu Pro Glu Thr Leu Tyr Leu Tyr Glu Asn Leu Leu Glu Leu Gly 115 120 Ile Glu Pro Ile Ile Ser Asp Arg Trp Lys Lys Leu Ser Glu Val 130 135 140 Thr Val Glu Asn Leu Lys Ala Val Gly Val Thr Lys Trp Lys His Leu 145 150 160 Ile Leu Lys Pro Asn Gly Ser Lys Leu Thr Gln Val Val Tyr Lys Ser 165 170 175 Lys Val Arg Asn Ser Leu Val Lys Lys Gly Tyr Asn Ile Val Gly Asn 190 180 185 Ile Gly Asp Gln Trp Ala Asp Leu Val Glu Asp Thr Pro Gly Arg Val 195 200 205 Phe Lys Leu Pro Asn Pro Leu Tyr Tyr Val Pro Ser 220 210 215

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Asn Asp Thr Val Asn Val Trp Ile Phe Asp Leu Asp Asp Thr Leu Leu 65 70 75 80

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Asp Pro Gly Ala Tyr Trp Leu Trp Leu Gly Thr Gly Ala Ser Thr Pro

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Gly Leu Pro Glu Gly Leu Tyr Leu Tyr Gln Asn Ile Ile Glu Val Gly
115 120 125

Ile Glu Pro Ile Ile Leu Ser Val Arg Trp Lys Leu Trp Lys Asn Val 130 135 140

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Leu Lys Pro Asn Gly Ser Asn Leu Arg Gln Val Val Tyr Lys Ser Lys 165 170 175

Val Arg Asn Lys Leu Val Lys Lys Gly Tyr Asn Ile Val Gly Asn Ile 180 185 190

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Val Asn Gln Gln Ala Phe Phe Tyr Ala Ser Glu Met Glu Met His His 50 55 60

Asn Asp Met Phe Ile Phe Gly Met Asp Asn Thr Met Leu Ser Asn Ile
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Met Tyr Asp Glu Trp Met Asn Lys Gly Asp Ala Pro Ala Leu Pro Glu 100 105 Thr Leu Lys Asn Tyr Asn Lys Leu Met Ser Leu Gly Phe Lys Met Val 115 120 Phe Met Ser Gly Arg Tyr Met Asp Lys Met Ala Val Thr Glu Ala Asn 130 135 140 Leu Met Lys Ala Gly Met His Thr Trp Glu Gln Leu Ile Leu Lys Asp 145 150 155 160 Pro His Leu Met Thr Pro Asn Ala Met Ser Tyr Lys Ser Ala Met Arg 165 170 Glu Asn Met Leu Arg Gln Gly Tyr Arg Ile Val Gly Met Ile Gly Asp 180 185 Gln Trp Ser Asp Leu Met Gly Asp His Met Gly Glu Ser Arg Met Phe 195 205 200 Lys Leu Pro Asn Pro Met Tyr Tyr Met Glu 210 215 <210> 10 <211> 218 <212> PRT <213> Glycine max <400> 10 Arg Ser Ser Glu Met Lys Cys Ala Ser Phe Arg Leu Ala Val Glu Ala 5 10 15 1

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